

PENDING CLAIMS
Application No. 10/047,987
Attorney Docket No. 05725.1020-00000
Filed: January 17, 2002

1.-147. (Canceled)

148. (New) A composition comprising at least one liquid fatty phase which comprises at least one fluoro oil, wherein the at least one liquid fatty phase is structured with at least one structuring polymer with a weight-average molecular mass of less than or equal to 1,000,000, comprising:

a) a polymer skeleton having hydrocarbon-based repeating units containing at least one hetero atom, and

b) optionally at least one fatty chain chosen from at least one pendent fatty chain and at least one terminal fatty chain,

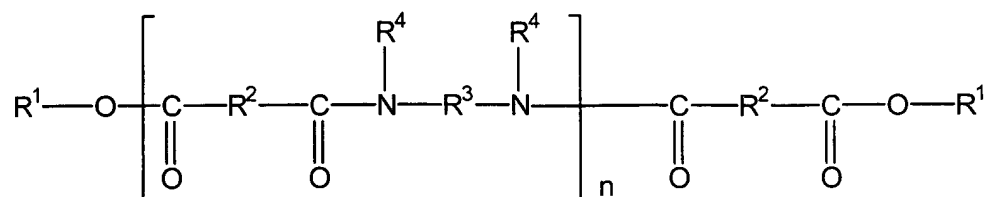
wherein the at least one fatty chain comprises from 6 to 120 carbon atoms, is linked to the hydrocarbon-based units, and is optionally functionalized, and

wherein the at least one liquid fatty phase and the at least one polymer form a physiologically acceptable medium.

149. (New) The composition according to claim 148, wherein the at least one hetero atom in the hydrocarbon-based repeating units of the polymer is a nitrogen atom.

150. (New) The composition according to claim 148, wherein the hydrocarbon-based repeating units are amide groups and said polymer skeleton is a polyamide skeleton.

151. (New) The composition according to claim 148, wherein said at least one structuring polymer is chosen from polyamide polymers of formula (I):



in which:

- n is an integer which represents the number of amide units such that the number of ester groups present in said at least one polyamide polymer ranges from 10% to 50% of the total number of all ester groups and all amide groups comprised in said at least one polyamide polymer;

- R¹, which are identical or different, are each chosen from alkyl groups comprising at least 4 carbon atoms and alkenyl groups comprising at least 4 carbon atoms;

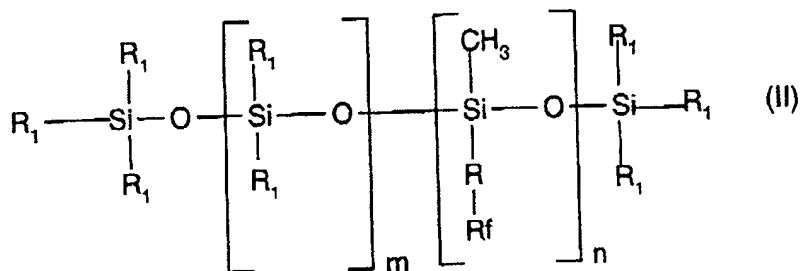
- R², which are identical or different, are each chosen from C₄ to C₄₂ hydrocarbon-based groups, with the proviso that at least 50% of all R² are chosen from C₃₀ to C₄₂ hydrocarbon-based groups;

- R³, which are identical or different, are each chosen from organic groups comprising atoms chosen from carbon atoms, hydrogen atoms, oxygen atoms and nitrogen atoms, with the proviso that R³ comprises at least 2 carbon atoms; and

- R⁴, which are identical or different, are each chosen from hydrogen atoms, C₁ to C₁₀ alkyl groups and a direct bond to at least one group chosen from R³ and another R⁴ such that when said at least one group is chosen from another R⁴, the nitrogen atom to which both R³ and R⁴ are bonded forms part of a heterocyclic structure defined in part by R⁴-N-R³, with the proviso that at least 50% of all R⁴ are chosen from hydrogen atoms.

152. (New) The composition according to claim 148, wherein said at least one structuring polymer is present in the composition in an amount ranging from 0.5% to 80% by weight relative to the total weight of the composition.

153. (New) The composition according to Claim 148, wherein the at least one fluoro oil is chosen from fluorosilicone compounds of formula (II):



wherein:

R is chosen from linear and branched divalent alkyl groups containing from 1 to 6 carbon atoms;

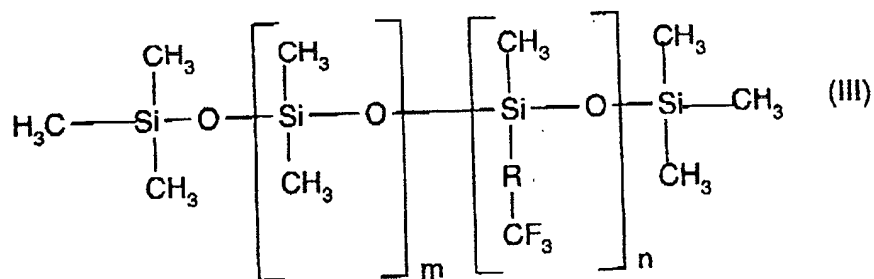
R_f is a fluoroalkyl radical containing from 1 to 9 carbon atoms;

R₁ is independently chosen from C₁-C₂₀ alkyl radicals, hydroxyl radicals, and phenyl radicals;

m ranges from 0 to 150; and

n ranges from 1 to 300.

154. (New) The composition according to Claim 148, wherein the at least one fluoro oil is chosen from fluorosilicone compounds of formula (III) below:



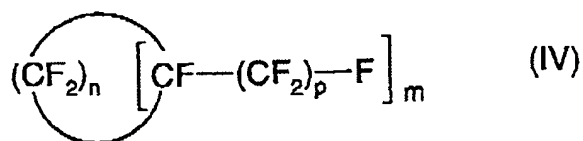
wherein:

R is chosen from divalent methyl, ethyl, propyl, and butyl groups;

m ranges from 0 to 80; and

n ranges from 1 to 30.

155. (New) The composition according to Claim 148, wherein the at least one fluoro oil is chosen from perfluorocycloalkyls of formula (IV):



wherein:

n is equal to 4 or 5;

m is equal to 1 or 2; and

p ranges from 1 to 3;

with the proviso that when $m = 2$, the $(\text{CF}_2)_p-\text{F}$ groups are not necessarily alpha to each other.

156. (New) The composition according to Claim 148, wherein the at least one fluoro oil is chosen from fluoroalkyl and heterofluoroalkyl compounds of formula (V):



wherein:

t is 0 or 1;

n ranges from 0 to 3;

X is chosen from linear and branched divalent perfluoroalkyl radicals containing from 2 to 5 carbon atoms; and

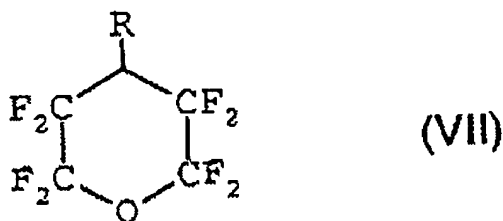
Z is chosen from O, S, NH, $-(CH_2)_n-CH_3$, wherein n is defined as above, and $-(CF_2)_m-CF_3$, wherein m ranges from 2 to 5.

157. (New) The composition according to Claim 148, wherein the at least one fluoro oil is chosen from perfluoroalkane compounds of formula (VI):



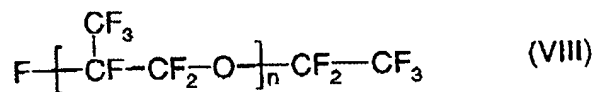
wherein n ranges from 2 to 6.

158. (New) The composition according to Claim 148, wherein the at least one fluoro oil is chosen from perfluoromorpholine derivatives of formula (VII):

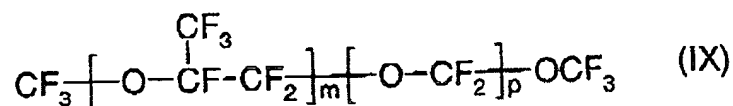


wherein R is chosen from C_1 - C_4 perfluoroalkyl radicals.

159. (New) The composition according to Claim 148, wherein the at least one fluoro oil is chosen from the perfluoropolyethers of formulae (VIII) and (IX):

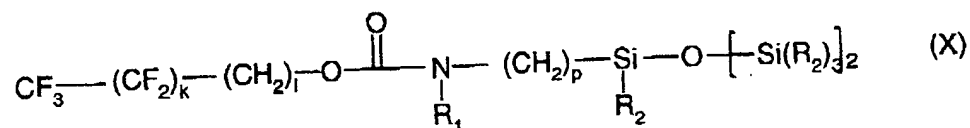


wherein n ranges from 7 to 30; and



wherein the ratio m/p ranges from 20 to 40, and the molecular weight ranges from 500 to 20,000.

160. (New) The composition according to Claim 148, wherein the at least one fluoro oil is chosen from fluorosilicone compounds of formula (X):



wherein:

k ranges from 1 to 17;

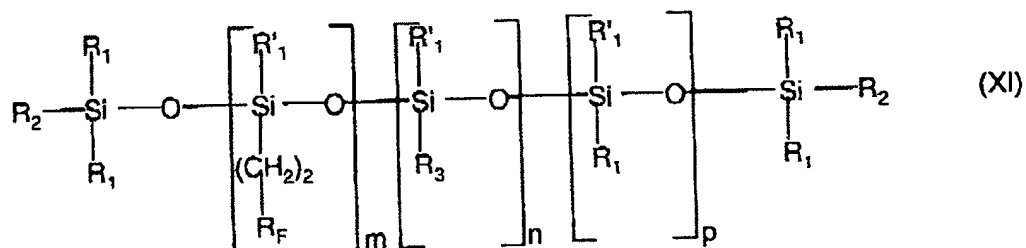
l ranges from 1 to 18;

p ranges from 1 to 6;

R_1 is chosen from hydrogen and C_1 - C_6 alkyl radicals;

R_2 is chosen from C_1 - C_6 alkyl radicals and $-\text{OSi}(\text{R}_3)_3$, R_3 being chosen from C_1 - C_4 alkyl radicals.

161. (New) The composition according to Claim 148, wherein the at least one fluoro oil is chosen from fluoroalkylsilicones of formula (XI):



wherein:

R_1 and R'_1 are independently chosen from linear and branched alkyl radicals containing from 1 to 6 carbon atoms, and phenyl radicals;

R_2 is chosen from R_1 , $-OH$, and $-(CH_2)_f-R_F$, f being an integer ranging from 0 to 10;

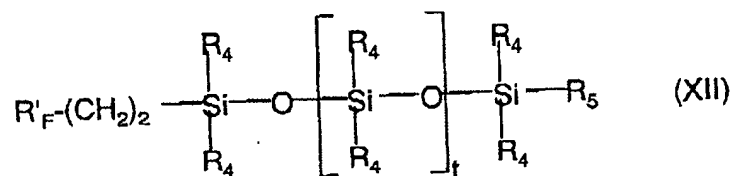
R_3 is chosen from linear and branched alkyl radicals containing from 6 to 22 carbon atoms;

R_F is chosen from $-(CF_2)_q-CF_3$, q being an integer ranging from 0 to 10;

m and n are independently chosen from an integer ranging from 1 to 50; and

p is an integer ranging from 0 to 2,000.

162. (New) The composition according to Claim 148, wherein the at least one fluoro oil is chosen from fluoroalkylsilicones of formula (XII):



wherein:

R_4 is chosen from linear and branched alkyl radicals containing from 1 to 6 carbon atoms, and phenyl radicals;

R_5 is chosen from linear and branched alkyl radicals containing from 6 to 22 carbon atoms, and phenyl radicals;

R'_F is chosen from $-(CF_2)_s-CF_3$, wherein s is an integer ranging from 0 to 15; and

t is an integer ranging from 1 to 2,000.

163. (New) The composition according to Claim 148, wherein the at least one fluoro oil is present in an amount ranging from 0.1% to 50% by weight, relative to the total weight of the composition.

164. (New) The composition according to Claim 148, further comprising at least one additional oil, other than the said at least one fluoro oil.

165. (New) The composition according to claim 148, wherein said at least one liquid fatty phase further comprises one additional non-volatile oil, other than said fluoro oil.

166. (New) The composition according to claim 148, further comprising at least one volatile solvent.

167. (New) The composition according to Claim 148, wherein the at least one liquid fatty phase further comprises an apolar oil.

168. (New) The composition according to Claim 148, wherein the at least one liquid fatty phase is present in an amount ranging from 5% to 99% by weight, relative to the total weight of the composition.

169. (New) The composition according to Claim 148, further comprising at least one dyestuff.

170. (New) The composition according to Claim 148, further comprising at least one additive chosen from water, antioxidants, essential oils, preserving agents, fragrances, fillers, waxes, fatty compounds that are pasty at room temperature, neutralizers, polymers that are liposoluble or dispersible in the physiologically acceptable medium, cosmetic agents, dermatological active agents, and dispersants.

171. (New) The composition according to claim 148, wherein the composition is in the form of a rigid gel or stick.

172. (New) The composition according to claim 148, wherein the composition is a cosmetic composition chosen from mascara, eyeliner, a foundation, a lipstick, a blusher, a deodorant product, a make-up-removing product, a body make-up product, an eye shadow, a face powder, a concealer product, a shampoo, a conditioner, an antisen product, a bodycare product, a facial care product, or a nail varnish.

173. (New) A process for caring for, making up, or treating a keratin material, comprising the application to the keratin material of a cosmetic composition comprising at least one liquid fatty phase which comprises at least one fluoro oil, wherein the at least one liquid fatty phase is structured with at least one structuring polymer with a weight-average molecular mass of less than or equal to 1,000,000, comprising:

a) a polymer skeleton having hydrocarbon-based repeating units containing at least one hetero atom, and

b) optionally at least one fatty chain chosen from at least one pendent fatty chain and at least one terminal fatty chain,

wherein the at least one fatty chain comprises from 6 to 120 carbon atoms, is linked to the hydrocarbon-based units, and is optionally functionalized, and

wherein the at least one liquid fatty phase and the at least one polymer form a physiologically acceptable medium.